PATENT CLAIMS

1. A central unit for a multi-carrier system, comprising equipment for the reception of a signal consisting of a plurality of carrier waves, additionally comprising equipment for the reception of a signal from equipment that transmits on one carrier wave, a single-carrier equipment, whose one carrier wave is a carrier wave that is comprised in the multi-carrier system for which the central unit is designed, the central unit also being equipped with means for scheduling the transmission from the single-carrier equipment in interaction with the single-carrier equipment, characterized in that the interaction with the single-carrier equipment for the scheduling of the transmission from the single-carrier equipment is carried out by modification of the existing frame that is used for scheduling the communication within the multi-carrier system in which the central unit is comprised.

2. A central unit according to claim 1, in which the existing frame for communication within a multi-carrier system is modified in order to be able to receive requests (RACH) for data transmission from a single-carrier unit.

3. Single-carrier equipment, equipped with means for receiving transmissions in multi-carrier system technique, further being equipped with means for, in interaction with a central unit in a multi-carrier system, preferably a central unit according to any of claims 1-2, scheduling its own transmissions to the central unit, characterized in that the interaction with the central unit for the scheduling of transmissions is carried out by means of a modification of one of the existing frames that are used for scheduling the communication within the multi-carrier system in which the central unit is comprised.

4. Single-carrier equipment according to claim 3, which is equipped with means for sending requests for data transmission to the central unit.